



08 167715

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Richard M. Lawn, Gordon A. Vehar, and Karen L. Wion

Serial No: continuation of
07/969,863Express Mail Label
No. TB458056621
Date of Deposit:
December 15, 1993

Filed: December 15, 1993

For: METHODS AND DEOXYRIBONUCLEIC ACID FOR THE
PREPARATION OF TISSUE FACTOR PROTEINBox DAC
Commissioner of Patents
and Trademarks
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Responsive to the Office Action mailed March 29, 1993, in
U.S.S.N. 07/969,863, please amend the application as follows:

In the Claims

Please cancel claims 1-3, 7, and 9-19.

4. (amended) Tissue factor protein wherein [a predetermined amino acid residue is substitute, inserted or deleted] wherein amino acids are substituted as selected from the group consisting of those wherein a hydrophilic residue is substituted for a hydrophobic residue, a cysteine or proline is substituted with any other amino acid residue, a residue having an electropositive side chain is substituted for an electronegative residue, and a residue having a bulky side chain is substituted for one not having a side chain.

5. The tissue factor protein of claim 4 wherein the transmembrane domain is deleted.

Applicants: Richard M. Lawn, Gordon A. Vehar, and Karen L. Wion
Serial No: continuation of 07/969,863
Filed: December 15, 1993
For: METHODS AND DEOXYRIBONUCLEIC ACID FOR THE
PREPARATION OF TISSUE FACTOR PROTEIN
PRELIMINARY AMENDMENT

6. The tissue factor protein of claim 3 having the mature tissue factor protein amino acid sequence of Figure 2 in which an amino acid has been inserted, deleted or substituted.

8. The tissue factor protein of claim 6 wherein the amino acid residues about 221 to 241 are deleted.

Please add new claims 20-26.

20. A soluble isolated tissue factor encoding the amino acid sequence shown in Figure 2.

21. The tissue factor of claim 20 which is not glycosylated.

22. The tissue factor of claim 20 consisting essentially of the amino acid residues of Figure 2 from residues one to 219.

23. The tissue factor of claim 20 having an amino acid sequence of Figure 2 from between the first amino acid and between residues 220 and 263.

24. The tissue factor of claim 20 wherein the cysteine residues are substituted with other amino acids.

25. The tissue factor of claim 20 wherein the potential proteolysis sites are deleted by replacing the amino acids with glutamyl or histidyl residues or deleting one of the basic residues.

26. The tissue factor of claim 20 having the sequence shown in Figure 2 between amino acid residues one and 219 and at least some of the region between amino acid residues 243 to 263.